RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:

Source:

Date Processed by STIC:

ENTERED



IFWO

RAW SEQUENCE LISTING DATE: 03/30/2005
PATENT APPLICATION: US/10/641,149 TIME: 10:17:04

Input Set : A:\028723-385.txt

```
4 <110> APPLICANT: Tobin, Allan J.
        Erlander, Mark G.
         Kaufman, Daniel L.
 6
 8 <120> TITLE OF INVENTION: Cloned Glumatic Acid Decarboxylase
10 <130> FILE REFERENCE: 028723-385
12 <140> CURRENT APPLICATION NUMBER: US 10/641,149
13 <141> CURRENT FILING DATE: 2003-08-15
15 <150> PRIOR APPLICATION NUMBER: US 07/586,536
16 <151> PRIOR FILING DATE: 1990-09-12
18 <160> NUMBER OF SEQ ID NOS: 8
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 60
24 <212> TYPE: PRT
25 <213> ORGANISM: Felis
27 <400> SEQUENCE: 1
28 Tyr Glu Ile Ala Pro Val Phe Val Leu Met Glu Gln Ile Thr Leu Lys
                    5
30 Lys Met Arg Glu Ile Val Gly Trp Ser Ser Lys Asp Gly Asp Gly Ile
                                   25
               20
32 Phe Ser Pro Gly Gly Ala Ile Ser Asn Met Tyr Ser Ile Met Ala Ala
                               40
34 Arg Tyr Lys Phe Phe Pro Glu Val Lys Thr Lys Gly
                           55
      50
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 53
40 <212> TYPE: PRT
41 <213> ORGANISM: Mus musculus
43 <400> SEQUENCE: 2
44 Tyr Glu Ile Ala Pro Val Phe Val Leu Leu Glu Tyr Val Arg Glu Ile
                                       10
46 Ile Gly Trp Pro Gly Gly Ser Asp Gly Ile Phe Ser Pro Gly Gly Ala
               20
                                   25
48 Ile Ser Asn Tyr Ala Met Leu Ile Ala Arg Tyr Lys Met Phe Pro Glu
          35
                               40
50 Val Lys Glu Lys Gly
       50
54 <210> SEQ ID NO: 3
55 <211> LENGTH: 1966
56 <212> TYPE: DNA
57 <213> ORGANISM: Mus musculus
59 <400> SEQUENCE: 3
60 gggcgtgcgg ggtcgagccg aagcagcttg cccgcagcca ctcggaggcg accagcgcca 60
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Input Set : A:\028723-385.txt

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61 gactagcaga acccatggca tctccgggct ctggcttttg gtccttcgga tctgaagatg 120
62 gctctgggga tcctgagaac ccgggaacag cgagagcctg gtgccaggtg gcccaaaagt 180
63 tcacgggcgg catcggaaac aagctatgcg ctctgctcta cggagactct gagaagccag 240
65 accaaaaacc ctgcagctgc cccaaaggag atgtcaatta tgcacttctc cacgcaacag 360
66 acctgctgcc agcctgtgaa ggagaaaggc ccactctcgc atttctgcaa gatgtaatga 420
67 acattttgct tcagtacgtg gtgaaaagtt ttgatagatc aactaaagtg attgatttcc 480
68 attaccccaa tgagettett caagagtata attgggaatt ggcagaccaa cegcaaaatc 540
69 tggaggaaat tttgacgcac tgccaaacaa ctctaaaata tgcgattaaa acagggcatc 600
70 cccgatattt taatcagctg tctaccggat tggatatggt tggattagca gcagattggt 660
71 tqacatcaac aqcaaacacg aacatgttta cctatgagat cgcccctgta tttgtactac 720
72 tggaatatgt gacactaaag aaaatgaggg aaatcattgg ctggccagga ggctctggcg 780
73 atggaatett tteteetggt ggtgecatet ceaacatgta egecatgete attgeeeget 840
74 ataagatgtt tecagaagte aaggaaaagg ggatggegge ggtgeecagg etcategeat 900
75 tcacgtcaga gcatagtcac ttttctctca agaagggagc tgcagccttg gggatcggaa 960
76 cagacagegt gattetgatt aaatgtgatg agagagggaa aatgateeca tetgacettg 1020
77 aaagaagaat ccttgaagtc aaacagaaag gatttgttcc tttcctggtg agtgccacag 1080
78 ctggaaccac tgtgtacggg gcttttgatc ctctcttggc tgtagctgac atctgcaaaa 1140
79 aatataagat etggatgeat gtggatgetg ettggggtgg agggttaetg atgtetegga 1200
80 aacacaagtg gaagctgaac ggtgtggaga gggccaactc tgtgacatgg aatccccaca 1260
81 agatgatggg tgtccccttg caatgttcgg ctctcctggt cagagaggag ggactgatgc 1320
82 agagetgeaa ceagatgeat getteetace tettteagea agataageae tatgacetgt 1380
83 cctatgacac gggagacaag gccttgcagt gtggacgcca cgtcgatgtc tttaaattat 1440
84 ggctcatgtg gagagcaaag gggactactg gatttgaagc tcacattgat aagtgtttgg 1500
85 agctqqcaqa qtatttatac aatatcatta aaaaccgaga aggatatgaa atggtgttcg 1560
86 atgggaagcc tcagcacaca aatgtctgct tctggtttgt acctcctagt ttgcgagttc 1620
87 tggaagacaa tgaagagaga atgagccgcc tctcaaaggt ggcgccagtg attaaagcca 1680
88 gaatgatgga gtatgggacc acaatggtca gctaccaacc cttaggagat aaggtcaact 1740
89 tetteegeat ggteatetea aaccetgeag caacteacea agacattgae tteeteattg 1800
90 aagaaatega acgeetggga caagatttgt aatcactttg etcaccaaac tttcagttet 1860
91 ctaggtagac agctaagttg tcacaaactg tgtaaatgta tttgtagttt gttccagagt 1920
92 aattctattt ctatatcgtg gtgtcacagt agagtccagt ttaaaa
94 <210> SEQ ID NO: 4
95 <211> LENGTH: 1758
96 <212> TYPE: DNA
97 <213> ORGANISM: Mus musculus
99 <220> FEATURE:
100 <221> NAME/KEY: CDS
101 <222> LOCATION: (1) ... (1758)
103 <400> SEQUENCE: 4
104 atg gca tct ccg ggc tct ggc ttt tgg tcc ttc gga tct gaa gat ggc
                                                                     48
105 Met Ala Ser Pro Gly Ser Gly Phe Trp Ser Phe Gly Ser Glu Asp Gly
106
                                        10
                                                                     96
108 tet ggg gat eet gag aac eeg gga aca geg aga gee tgg tge eag gtg
109 Ser Gly Asp Pro Glu Asn Pro Gly Thr Ala Arg Ala Trp Cys Gln Val
                                    25
                20
112 qcc caa aaq ttc acg ggc ggc atc gga aac aag cta tgc gct ctg ctc
                                                                     144
113 Ala Gln Lys Phe Thr Gly Gly Ile Gly Asn Lys Leu Cys Ala Leu Leu
114
            35
                                40
```

Input Set : A:\028723-385.txt

| 116 | tac | gga | gac | tct | gag | aag | cca | gca | gag | agc | ggc | ggg | agc | gtg | acc | tcg | 192 |
|-----|-----|------------|-----|-------------|------------|-----|------|------|------|-------|-------|-----|-----|---------|----------|------|------|
| 117 | Tyr | Gly | Asp | Ser | Glu | Lys | Pro | Ala | Glu | Ser | Gly | Gly | Ser | Val | Thr | Ser | |
| 118 | | 50 | | | | | 55 | | | | | 60 | | | | | |
| 120 | cgg | gcc | gcc | act | cgg | aag | gtc | gcc | tgc | acc | tgt | gac | caa | aaa | CCC | tgc | 240 |
| 121 | Arg | Ala | Ala | Thr | Arg | Lys | Val | Ala | Cys | Thr | Cys | Asp | Gln | Lys | Pro | Cys | |
| 122 | 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| | | | | | gga | | | | | | | | | | | | 288 |
| 125 | Ser | Cys | Pro | Lys | Gly | Asp | Val | Asn | Tyr | Ala | Leu | Leu | His | Ala | | Asp | |
| 126 | | | | | 85 | | | | | 90 | | | | | 95 | | |
| | | | | | tgt | | | | | | | | | | | | 336 |
| 129 | Leu | Leu | Pro | Ala | Cys | Glu | Gly | Glu | | Pro | Thr | Leu | Ala | | Leu | Gln | |
| 130 | | | | 100 | | • | | | 105 | | | | | 110 | | | |
| | | | | | att | | | | | | | | | | | | 384 |
| 133 | Asp | Val | Met | Asn | Ile | Leu | Leu | | Tyr | Val | Val | Lys | | Phe | Asp | Arg | |
| 134 | | | 115 | | | | | 120 | | | | | 125 | | | | |
| | | | | | att | | | | | | | | | | | | 432 |
| 137 | Ser | | Lys | Val | Ile | Asp | | His | Tyr | Pro | Asn | | Leu | Leu | GIn | GIu | |
| 138 | | 130 | | | | | 135 | | | | | 140 | | | | | 400 |
| | | | | | ttg | | | | | | | | | | | | 480 |
| | | Asn | Trp | Giu | Leu | | Asp | GIn | Pro | GIn | | ьeu | GIU | GIU | ше | | |
| 142 | | | | | | 150 | | | | | 155 | | | ~~~ | a > t | 160 | E20 |
| | | | | | aca | | | | | | | | | | | | 528 |
| | Thr | His | Cys | GIN | Thr | Tnr | ьeu | гйг | Tyr | 170 | TTE | ьуѕ | THE | GIY | 175 | PIO | |
| 146 | | | | | 165 | | + ~+ | | ~~~ | | ~a+ | 2+~ | ~++ | ~~~ | | aa a | 576 |
| | | | | | cag Gln | | | | | | | | | | | | 370 |
| | Arg | Tyr | Pne | 180 | GIII | ьeu | ser | 1111 | 185 | ьец | Asp | Mec | vai | 190 | шец | AΙα | |
| 150 | ~~~ | ~a+ | +~~ | | aca | tas | 202 | aca | | aca | aac | ato | +++ | | tat | gag | 624 |
| 152 | yca | yat Nen | Trn | LLG | Thr | Ser | Thr | Δla | Acn | Thr | Agn | Met | Phe | Thr | Tvr | Glu | 021 |
| 154 | АТА | Asp | 195 | пец | 1111 | ber | 1111 | 200 | Abii | **** | 11011 | | 205 | | -1- | | |
| | atc | acc | | αta | ttt | αta | cta | | gaa | tat | ata | aca | | aaq | aaa | atq | 672 |
| | | | | | Phe | | | | | | | | | | | | |
| 158 | | 210 | | | | | 215 | | | - 2 - | | 220 | | 4 | - | | |
| | agg | | atc | att | ggc | taa | cca | qqa | qqc | tct | qqc | qat | qqa | atc | ttt | tct | 720 |
| 161 | Ara | Glu | Ile | Ile | Gly | Trp | Pro | Gly | Gly | Ser | Gly | Asp | Gly | Ile | Phe | Ser | |
| 162 | _ | | | | • | 230 | | - | _ | | 235 | _ | _ | | | 240 | |
| 164 | cct | ggt | ggt | gcc | atc | tcc | aac | atg | tac | gcc | atg | ctc | att | gcc | cgc | tat | 768 |
| | | | | | Ile | | | | | | | | | | | | |
| 166 | | _ | _ | | 245 | | | | | 250 | | | | | 255 | | |
| 168 | aag | atg | ttt | cca | gaa | gtc | aag | gaa | aag | ggg | atg | gcg | gcg | gtg | CCC | agg | 816 |
| 169 | Lys | Met | Phe | Pro | Glu | Val | Lys | Glu | Lys | Gly | Met | Ala | Ala | Val | Pro | Arg | |
| 170 | | | | 260 | | | | | 265 | | | | | 270 | | | |
| 172 | ctc | atc | gca | ttc | acg | tca | gag | cat | agt | cac | ttt | tct | ctc | aag | aag | gga | 864 |
| 173 | Leu | Ile | Ala | Phe | Thr | Ser | Glu | | Ser | His | Phe | Ser | | Lys | Lys | Gly | |
| 174 | | | 275 | | | | | 280 | | | | | 285 | | | | |
| 176 | gct | gca | gcc | ttg | 999 | atc | gga | aca | gac | agc | gtg | att | ctg | att | aaa - | tgt | 912 |
| | Ala | | Ala | Leu | Gly | Ile | | Thr | Asp | Ser | Val | | Leu | Ile | Lys | Cys | |
| 178 | | 290 | | | | | 295 | | | | | 300 | | | | _, , | 0.50 |
| 180 | gat | gag | aga | a aa | aaa | atg | atc | cca | tct | gac | ctt | gaa | aga | aga | atc | CTT | 960 |
| | | | | | | | | | | | | | | | | | |

Input Set : A:\028723-385.txt

| | Asp 305 | Glu | Arg | Gly | Lys | Met 310 | Ile | Pro | Ser | Asp | Leu 315 | Glu | Arg | Arg | Ile | Leu 320 | |
|-----|------------|------|----------|-----|------|------------|-------------|------|-----|------|------------|-------|------|------|------|------------|------|
| | | | | | | | | ~++ | | | | ~+ ~ | - a+ | ~~~ | 202 | | 1008 |
| | gaa | | | | | | | | | | | | | | | | 1000 |
| | Glu | vai | гуѕ | GIN | | GIY | Pne | vaı | PIO | | Leu | vai | ser | Ala | | Ala | |
| 186 | | | | | 325 | | | | | 330 | | | | | 335 | | |
| | gga | | | | | | | | | | | | | | | | 1056 |
| 189 | Gly | Thr | Thr | Val | Tyr | Gly | Ala | Phe | Asp | Pro | Leu | Leu | Ala | Val | Ala | Asp | |
| 190 | | | | 340 | | | | | 345 | | | | | 350 | | | |
| | atc | | | | | | | | | | | | | | | | 1104 |
| 193 | Ile | Cys | Lys | Lys | Tyr | Lys | Ile | Trp | Met | His | Val | Asp | Ala | Ala | Trp | Gly | |
| 194 | | | 355 | | | | | 360 | | | | | 365 | | | | |
| 196 | gga | ggg | tta | ctg | atg | tct | cgg | aaa | cac | aag | tgg | aag | ctg | aac | ggt | gtg | 1152 |
| 197 | Gly | Gly | Leu | Leu | Met | Ser | Arg | Lys | His | Lys | Trp | Lys | Leu | Asn | Gly | Val | |
| 198 | _ | 370 | | | | | 375 | | | | | 380 | | | | | |
| 200 | gag | aqq | qcc | aac | tct | gtg | aca | tgg | aat | CCC | cac | aag | atg | atg | ggt | gtc | 1200 |
| | Glu | | | | | | | | | | | | | | | | |
| | 385 | _ | | | | 390 | | | | | 395 | _ | | | | 400 | |
| | ccc | ttq | caa | tqt | tcq | qct | ctc | ctq | qtc | aga | gag | gag | gga | ctg | atg | cag | 1248 |
| | Pro | | | | | | | | | | | | | | | | |
| 206 | | | | • | 405 | | | | | 410 | | | • | | 415 | | |
| | agc | tac | aac | caq | atq | cat | qct | tcc | tac | ctc | ttt | caq | caa | gat | aag | cac | 1296 |
| 209 | Ser | Cvs | Asn | Gln | Met | His | Āla | Ser | Tvr | Leu | Phe | Gln | Gln | Asp | Lys | His | |
| 210 | | -1 | | 420 | | | | | 425 | | | | | 430 | - | | |
| | tat | gac | cta | | tat | gac | acσ | ασa | | aaσ | acc | tta | caq | tqt | qqa | cqc | 1344 |
| | Tyr | | | | | | | | | | | | | | | | |
| 214 | -1- | F | 435 | | -1- | | | 440 | | -4 | - | | 445 | • | • | | |
| | cac | at.c | | atc | ttt | aaa | tta | taa | ctc | atq | taa | aga | qca | aaq | aaa | act | 1392 |
| | His | | | | | | | | | | | | | | | | |
| 218 | | 450 | | | | | 455 | - | | | - | 460 | | - | - | | |
| | act | | ttt | gaa | act | cac | att | qat | aaq | tat | ttq | qaq | ctq | qca | qaq | tat | 1440 |
| | Thr | | | | | | | | | | | | | | | | |
| | 465 | 1 | | | | 470 | | | | - 4 | 475 | | | | | 480 | |
| | tta | tac | aat | atc | att | | aac | cga | gaa | gga | | gaa | atq | ata | ttc | gat | 1488 |
| | Leu | | | | | | | | | | | | | | | | |
| 226 | ncu. | -1- | 11011 | | 485 | _,, | | 5 | | 490 | -1- | | | | 495 | | |
| | ggg | aad | cct | cad | | aca | aat | atc | tac | | taa | ttt | σt.a | cct | | agt. | 1536 |
| | Gly | | | | | | | | | | | | | | | | |
| 230 | Gry | цур | 110 | 500 | 1113 | 1111 | 7.511 | VUI | 505 | 1110 | | 1110 | •~- | 510 | | 202 | |
| | ttg | aa2 | ~++ | | ~== | a a c | 22 + | raa | | agra | ato | agg | cac | | tca | aag | 1584 |
| | Leu | | | | | | | | | | | | | | | | 1301 |
| | цец | Arg | 515 | пеп | Giu | Asp | VOII | 520 | GIU | nrg | Mec | JCI | 525 | ncu | 001 | _, | |
| 234 | gtg | | | ~+~ | | | ~~~ | | 2+~ | a+~ | ~~~ | + = + | | 200 | 202 | ato | 1632 |
| | | | | | | | | | | | | | | | | | 1032 |
| | Val | | PIO | Val | TIE | пàр | | Arg | Mec | Mec | GIU | 540 | Gry | 1111 | 1111 | Mec | |
| 238 | | 530 | L | | | | 535 | ~~ t | | ~+ ~ | 225 | | ++~ | ~~~ | a+~ | ata | 1680 |
| 240 | gtc | agc | tac | caa | CCC | LCa | gga | yat | aag | gcc | aac | Dha | Dha | 7×~ | Mc+ | y.c. | 1000 |
| | Val | ser | Tyr | GIN | Pro | | GTÀ | Asp | тАЗ | val | | Fue | File | мтд | Met | | |
| | 545 | | | | | 550 | | | | | 555 | | | a+ - | | 560 | 1720 |
| | atc | | | | | | | | | | | | | | | | 1728 |
| 245 | Ile | Ser | Asn | Pro | Ala | Ala | Thr | His | Gln | Asp | Ile | Asp | Pne | Leu | тте | GIU | |

Input Set : A:\028723-385.txt

| 246 | | | | | 565 | | | | | 570 | | | | | 575 | | |
|-----|------|-------|-------|-------|-----|------------|------------|------------|----------------|------|----------|----------|----------------|-------------|-----------|----------|------|
| 248 | gaa | atc | gaa | cgc | ctg | gga | caa | gat | ttg | taa | | | | | | | 1758 |
| | | | | | Leu | | | | | | | | | | | | |
| 250 | | | | 580 | | | | | 585 | | | | | | | | |
| 253 | <210 |)> SI | EQ II | ON C | : 5 | | | | | | | | | | | | |
| 254 | <211 | L> LE | ENGT | I: 58 | 35 | | | | | | | | | | | | |
| 255 | <212 | 2> T | PE: | PRT | | | | | | | | | | | | | |
| 256 | <213 | 3> OF | RGAN | SM: | Mus | musc | culus | 3 | | | | | | | | | |
| | | | EQUE | | | | | | | | | | | | | | |
| 259 | Met | Ala | Ser | Pro | Gly | Ser | Gly | Phe | \mathtt{Trp} | Ser | Phe | Gly | Ser | Glu | Asp | Gly | |
| 260 | | | | | 5 | | | | | 10 | | | | | 15 | _ | |
| 261 | Ser | Gly | Asp | Pro | Glu | Asn | Pro | Gly | Thr | Ala | Arg | Ala | \mathtt{Trp} | | Gln | Val | |
| 262 | | | | 20 | | | | | 25 | | | | | 30 | _ | _ | |
| 263 | Ala | Gln | Lys | Phe | Thr | Gly | Gly | | Gly | Asn | Lys | Leu | | Ala | Leu | Leu | |
| 264 | | | 35 | | _ | | | 40 | | | | | 45 | | _, | _ | |
| 265 | Tyr | _ | Asp | Ser | Glu | Lys | | Ala | Glu | Ser | Gly | | Ser | Val | Thr | ser | |
| 266 | | 50 | | | _ | _ | 55 | | _ | | _ | 60 | ~ 1 | - | | G | |
| | | Ala | Ala | Thr | Arg | | Val | Ala | Cys | Thr | | Asp | GIn | ьуѕ | Pro | | |
| 268 | | _ | _ | | ~1 | 70 | 7 | • | | | 75 | - | 774 | 77. | mb | 80 | |
| | Ser | Cys | Pro | гуs | Gly | Asp | vaı | Asn | Tyr | | Leu | Leu | HIS | Ата | | Asp | |
| 270 | • | + | D | ×7 - | 85 | a 1 | a 1 | ~1 | 7. ~~~ | 90 | mh.∽ | T 011 | 71- | Dho | 95 Ton | Cln | |
| | ьeu | ьeu | Pro | | Cys | GIU | GIŸ | GIU | 105 | PIO | 1111 | ьeu | мта | 110 | цец | Gili | |
| 272 | 7 an | 17-1 | Mot | 100 | Ile | Lou | Leu | Gln | | Wa I | TeV | Larg | Ser | | Asn | Ara | |
| 274 | Asp | vai | 115 | ASII | 116 | пеа | пец | 120 | TYL | vai | vai | цуз | 125 | 1110 | nop | 1119 | |
| | Sor | Thr | | Wal | Ile | Δen | Dhe | | Туг | Pro | Asn | G111 | | Len | Gln | Glu | |
| 276 | DCI | 130 | цуз | vai | 110 | riop | 135 | ***** | -1- | | | 140 | | | | | |
| | Tvr | | Trn | Glu | Leu | Ala | | Gln | Pro | Gln | Asn | | Glu | Glu | Ile | Leu | |
| | 145 | 11011 | | 0_0 | | 150 | | - | | | 155 | | | | | 160 | |
| | | His | Cvs | Gln | Thr | | Leu | Lys | Tyr | Ala | Ile | Lys | Thr | Gly | His | Pro | |
| 280 | | | -1- | | 165 | | | - | • | 170 | | • | | _ | 175 | | |
| | Arq | Tyr | Phe | Asn | Gln | Leu | Ser | Thr | Gly | Leu | Asp | Met | Val | Gly | Leu | Ala | |
| 282 | | • | | 180 | | | | | 185 | | _ | | | 190 | | | |
| | Ala | Asp | Trp | Leu | Thr | Ser | Thr | Ala | Asn | Thr | Asn | Met | Phe | Thr | Tyr | Glu | |
| 284 | | | 195 | | | | | 200 | | | | | 205 | | | | |
| 285 | Ile | Ala | Pro | Val | Phe | Val | Leu | Leu | Glu | Tyr | Val | Thr | Leu | Lys | Lys | Met | |
| 286 | | 210 | | | | | 215 | | | | | 220 | | | | | |
| 287 | Arg | Glu | Ile | Ile | Gly | Trp | Pro | Gly | Gly | Ser | Gly | Asp | Gly | Ile | Phe | | |
| | 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| 289 | Pro | Gly | Gly | Ala | Ile | Ser | Asn | Met | Tyr | Ala | Met | Leu | Ile | Ala | Arg | Tyr | |
| 290 | | | | | 245 | | | | | 250 | | | | _ | 255 | | |
| | Lys | Met | Phe | | Glu | Val | Lys | Glu | | Gly | Met | Ala | Ala | | Pro | Arg | |
| 292 | | | | 260 | | | _ | | 265 | | | _ | _ | 270 | _ | ~-7 | |
| | | Ile | | Phe | Thr | Ser | Glu | | Ser | His | Phe | Ser | | Lys | Lys | GIY | |
| 294 | | | 275 | _ | | | | 280 | _ | _ | | | 285 | - 7. | T | G | |
| | | | Ala | Leu | Gly | Ile | | Thr | Asp | Ser | Val | | Leu | тте | ьys | cys | |
| 296 | | 290 | _ | ~- | _ | | 295 | 5 . | _ | | . | 300 | 7 | 7 | T7 - | T | |
| | _ | Glu | Arg | Gly | Lys | | тте | Pro | ser | Asp | | GIU | arg | arg | тте | | |
| 298 | 305 | | | | | 310 | | | | | 315 | | | | | 320 | |

VERIFICATION SUMMARY

DATE: 03/30/2005

PATENT APPLICATION: US/10/641,149

TIME: 10:17:05

Input Set : A:\028723-385.txt
Output Set: N:\CRF4\03302005\J641149.raw